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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/850,367	05/08/2001	Jin-Ho Ha	6192.0233.AA	2543
7590	03/22/2005		EXAMINER	
McGuireWoods LLP 1750 Tysons Blvd Suite 1800 McLean, VA 22102			NGUYEN, HOAN C	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/850,367

Applicant(s)

HA ET AL.

Examiner

HOAN C. NGUYEN

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 14 December 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-52 is/are pending in the application.
- 4a) Of the above claim(s) 1-33 and 43-49 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 34-42 and 50-52 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Drawings*

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the features "a mold frame 600 receive the chassis (top chassis or bottom chassis?) and having an opening exposing a bottom surface of the chassis" must be shown or the feature(s) canceled from the claim(s). Fig. 3 shows the mold frame 600 locating under bottom chassis. However, Fig. 4 shows the mold frame 600 inserting between the top and bottom chassis. Figure 3 and Figure 4 are inconsistent to each other and to the claimed invention. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New

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Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 34-40 and 50-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Murai (US5986726A).

In regard to claims 34, 38-40, 50 and 52, Murai teaches (Figs. 1-4) a liquid crystal display device comprising:

- displaying unit (a display panel 5) for displaying an image;
- a chassis (a metal bezel 8 considers as top chassis and a metal sheet 1 considers as bottom chassis) receiving the displaying unit;
- a mold frame (resin frame 2) receive the bottom chassis and having an opening exposing a bottom surface of the bottom chassis;
- a printed circuit board (a driving circuit board 4) directly mounted on a bottom surface of the bottom chassis by screwing (col. 3 lines 62-63), for controlling an operation of the displaying means;

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Claims 35 and 51:

- a shield case (an isolation sheet 3 considers as a shield case) covering the PCB as shown in Fig. 1;

Claims 38-40:

- a fixing unit (screw 9) for fixing the printed circuit board to a bottom surface of the bottom chassis by screwing according to claim 38 (col. 3 lines 62-63); therefore, the printed circuit board is arranged between the bottom chassis and the fixing unit (screw 9) according to claim 39 and the printed circuit board is overlapped at one end thereof with the fixing unit (screw 9) according to 40.

wherein

Claim 36:

- the opening exposes a center portion of the bottom surface of the bottom chassis.

Claim 37:

- the printed circuit board includes:
  - a power supplying unit that supplies power to the display unit. The power-supplying unit inherently is included in the printed circuit board to supply power for driving IC 61 and display unit so that the LCD device is able being functioned.
  - A signal converting unit (driving IC 61) for converting a signal provided to the display unit.

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2. Claims 34, 38-42, 50 and 52 are rejected under 35 U.S.C. 102(b) as being anticipated by Lachmann et al. (US4415983).

In regard to claims 34, 50 and 52, Lachmann et al. teach (Figs. 1-4) a liquid crystal display device comprising:

- displaying unit (LCD 12) for displaying an image;
- a chassis (base member 13) receiving the displaying unit;
- a mold frame (rubber strips 29a-b) receive the bottom chassis and having an opening exposing a bottom surface of the chassis;
- a printed circuit board (PCB 15) directly mounted on a bottom surface of the chassis;

Claims 38-40:

- a fixing unit (post 26) for fixing the printed circuit board to a bottom surface of the bottom chassis according to claim 38 (col. 3 lines 62-63); therefore, the printed circuit board is arranged between the bottom chassis and the fixing unit according to claim 39 and the printed circuit board is overlapped at one end thereof with the fixing unit according to 40.

***Response to Arguments***

Applicant's arguments filed on 12/14/2004 have been fully considered but they are not persuasive.

Applicant's ONLY arguments are follows:

- A. Murai fails to disclose or suggest the mold frame receiving the chassis and having an opening exposing a bottom surface of the chassis.
- B. Lachman fails to disclose or suggest (a) a chassis receiving the displaying unit, (b) the mold frame (rubber strips 29a-b) receiving the chassis and having an opening exposing a bottom surface of the chassis, (c) the PCB 15 directly mounted on a bottom surface of a chassis.

Examiner's responses to Applicants' ONLY arguments are follows:

- A. Murai teaches the mold frame receiving the chassis and having an opening exposing a bottom surface of the bottom chassis 1 (a metal bezel 8 considers as top chassis and a metal sheet 1 considers as bottom chassis).
- B. Lachman discloses (a) a chassis (base member 13) receiving the displaying unit, (b) the mold frame receiving the chassis and having an opening exposing a bottom surface of the chassis, (c) the PCB directly mounted on a bottom surface of a chassis.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (571) 272-2296. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim H. Robert can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HOAN C. NGUYEN  
Examiner  
Art Unit 2871

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TARIFUR R. CHOWDHURY  
PRIMARY EXAMINER